

EAST Search History

EAST Search History (Prior Art)

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|---|--------------------|------------------|---------|---------------------|
| S1 | 593 | (Hung near4 Dang).xa. | US-PGPUB; USPAT | OR | ON | 2008/06/17 15:50 |
| S2 | 20 | S1 and (downhol or borehole or wellbore) | US-PGPUB; USPAT | OR | ON | 2008/06/17 15:51 |
| S3 | 5 | S2 and reflect\$4 | US-PGPUB; USPAT | OR | ON | 2008/06/17 15:51 |
| S4 | 1 | ((("3906434") or ("2003015319")).PN. | US-PGPUB; USPAT | OR | OFF | 2008/06/17 16:20 |
| S5 | 1 | ("3906434").PN. | US-PGPUB; USPAT | OR | OFF | 2008/06/17 18:12 |
| S6 | 1 | S5 and reflect\$4 | US-PGPUB; USPAT | OR | ON | 2008/06/17 18:12 |
| S7 | 2362 | (downhole or borehole or wellbore) and (acoustic\$4) and (reflect\$4) and (amplitude or phase) | US-PGPUB; USPAT | OR | ON | 2008/06/17 18:22 |
| S8 | 2362 | (downhole or borehole or wellbore) and (acoustic\$4) and (reflect\$4) and (amplitude or phase) | US-PGPUB; USPAT | OR | ON | 2008/06/18 13:52 |
| S9 | 205 | (340/854.3,853.4).CCLS. | US-PGPUB; USPAT | OR | OFF | 2008/06/18 13:52 |
| S10 | 39 | S8 and S9 | US-PGPUB; USPAT | OR | ON | 2008/06/18 13:52 |
| S11 | 35 | S10 and (liquid or fluid) | US-PGPUB; USPAT | OR | ON | 2008/06/18 13:53 |
| S12 | 9 | S11 and reflector | US-PGPUB; USPAT | OR | ON | 2008/06/18 13:54 |
| S13 | 1 | ("7138929").PN. | US-PGPUB; USPAT | OR | OFF | 2008/06/18 14:13 |
| S14 | 1 | S13 and reflect\$4 | US-PGPUB; USPAT | OR | ON | 2008/06/18 14:13 |
| S15 | 1 | "4590593".PN. | USPAT; USOCR | OR | ON | 2008/06/18 14:14 |
| S16 | 1 | "4733233".PN. | USPAT; USOCR | OR | ON | 2008/06/18 14:14 |
| S17 | 1 | "4878206".PN. | USPAT; USOCR | OR | ON | 2008/06/18 14:15 |
| S18 | 1 | "5146433".PN. | USPAT; USOCR | OR | ON | 2008/06/18 14:15 |

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|-----|-----|--|--------------------|----|-----|---------------------|
| S19 | 1 | "5459697".PN. | USPAT; USOCR | OR | ON | 2008/06/18 14:16 |
| S20 | 1 | "5535177".PN. | USPAT; USOCR | OR | ON | 2008/06/18 14:16 |
| S21 | 1 | "5583827".PN. | USPAT; USOCR | OR | ON | 2008/06/18 14:16 |
| S22 | 1 | "5969638".PN. | USPAT; USOCR | OR | ON | 2008/06/18 14:17 |
| S23 | 1 | "6097310".PN. | USPAT; USOCR | OR | ON | 2008/06/18 14:17 |
| S24 | 563 | (downhole or borehole or wellbore) and (acoustic\$4) and (reflector) and (amplitude or phase) | US-PGPUB; USPAT | OR | ON | 2008/06/18 14:19 |
| S25 | 189 | S24 and (liquid or fluid) | US-PGPUB; USPAT | OR | ON | 2008/06/18 14:19 |
| S26 | 569 | (367/81-83).CCLS. | US-PGPUB; USPAT | OR | OFF | 2008/06/18 14:21 |
| S27 | 9 | S25 and S26 | US-PGPUB; USPAT | OR | ON | 2008/06/18 14:21 |
| S28 | 1 | ("6757218").PN. | US-PGPUB; USPAT | OR | OFF | 2008/06/18 15:38 |
| S29 | 1 | S28 and wave | US-PGPUB; USPAT | OR | ON | 2008/06/18 15:38 |
| S30 | 0 | S28 and carrier | US-PGPUB; USPAT | OR | ON | 2008/06/18 15:38 |
| S31 | 1 | S28 and sensor | US-PGPUB; USPAT | OR | ON | 2008/06/18 15:43 |
| S32 | 0 | S28 and transducer | US-PGPUB; USPAT | OR | ON | 2008/06/18 15:43 |
| S33 | 0 | S28 and modulat\$4 | US-PGPUB; USPAT | OR | ON | 2008/06/18 15:44 |
| S34 | 1 | ("6757218").PN. | US-PGPUB; USPAT | OR | OFF | 2008/06/18 16:14 |
| S35 | 1 | S34 and reflect\$4 | US-PGPUB; USPAT | OR | ON | 2008/06/18 16:14 |
| S36 | 1 | "3900827".PN. | USPAT; USOCR | OR | ON | 2008/06/18 16:14 |
| S37 | 1 | "4273212".PN. | USPAT; USOCR | OR | ON | 2008/06/18 16:14 |
| S38 | 1 | "4535429".PN. | USPAT; USOCR | OR | ON | 2008/06/18 16:15 |
| S39 | 1 | "4715022".PN. | USPAT; USOCR | OR | ON | 2008/06/18 16:15 |
| S40 | 1 | "5119344".PN. | USPAT; USOCR | OR | ON | 2008/06/18 16:15 |

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| S41 | 1 | "5495237".PN. | USPAT; USOCR | OR | ON | 2008/06/18 16:15 |
| S42 | 1 | "5615172".PN. | USPAT; USOCR | OR | ON | 2008/06/18 16:15 |
| S43 | 1 | "6094986".PN. | USPAT; USOCR | OR | ON | 2008/06/18 16:16 |
| S44 | 1 | S28 and phase | US-PGPUB; USPAT | OR | ON | 2008/06/18 16:20 |
| S45 | 1 | S44 and amplitude | US-PGPUB; USPAT | OR | ON | 2008/06/18 16:20 |
| S46 | 0 | S28 and (reflect\$4 with property) | US-PGPUB; USPAT | OR | ON | 2008/06/18 16:28 |
| S47 | 1 | S28 and property | US-PGPUB; USPAT | OR | ON | 2008/06/18 17:27 |
| S48 | 0 | S28 and viscosity | US-PGPUB; USPAT | OR | ON | 2008/06/18 17:47 |
| S49 | 1 | ("6757218").PN. | US-PGPUB; USPAT | OR | OFF | 2008/06/19 12:05 |
| S50 | 1 | S49 and energy | US-PGPUB; USPAT | OR | ON | 2008/06/19 12:05 |
| S51 | 2 | "6757218" | US-PGPUB; USPAT | OR | ON | 2008/06/19 13:38 |
| S52 | 1 | ("6757218").PN. | US-PGPUB; USPAT | OR | OFF | 2008/06/19 13:39 |
| S53 | 1 | S52 and phase | US-PGPUB; USPAT | OR | ON | 2008/06/19 13:39 |
| S54 | 1 | S53 and amplitude | US-PGPUB; USPAT | OR | ON | 2008/06/19 13:39 |
| S55 | 1 | S52 and phase | US-PGPUB; USPAT | OR | ON | 2008/06/19 14:02 |
| S56 | 1 | ("6757218").PN. | US-PGPUB; USPAT | OR | OFF | 2008/06/19 18:20 |
| S57 | 1 | S56 and resonat\$4 | US-PGPUB; USPAT | OR | ON | 2008/06/19 18:21 |
| S58 | 2365 | (downhole or borehole or wellbore) and (acoustic\$4) and (reflect\$4) and (amplitude or phase) | US-PGPUB; USPAT | OR | ON | 2008/06/20 18:44 |
| S59 | 205 | (340/854.3,853.4).CCLS. | US-PGPUB; USPAT | OR | OFF | 2008/06/20 18:44 |
| S60 | 39 | S58 and S59 | US-PGPUB; USPAT | OR | ON | 2008/06/20 18:44 |
| S61 | 17 | S60 and (acoustic\$4 with energy) | US-PGPUB; USPAT | OR | ON | 2008/06/20 18:44 |
| S62 | 1 | S61 and piezoelectric\$4 | US-PGPUB; USPAT | OR | ON | 2008/06/20 18:45 |

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|-----|--------|---|--------------------|----|-----|---------------------|
| S63 | 205 | (340/854.3,853.4).CCLS. | US-PGPUB; USPAT | OR | OFF | 2008/06/20 18:45 |
| S64 | 32 | S63 and piezoelectric\$4 | US-PGPUB; USPAT | OR | ON | 2008/06/20 18:45 |
| S65 | 28 | S64 and acoustic\$4 | US-PGPUB; USPAT | OR | ON | 2008/06/20 18:46 |
| S66 | 20 | S65 and energy | US-PGPUB; USPAT | OR | ON | 2008/06/20 18:46 |
| S67 | 205 | (340/854.3,853.4).CCLS. | US-PGPUB; USPAT | OR | OFF | 2008/06/21 15:24 |
| S68 | 32 | S67 and piezoelectric\$4 | US-PGPUB; USPAT | OR | ON | 2008/06/21 15:24 |
| S69 | 28 | S68 and acoustic\$4 | US-PGPUB; USPAT | OR | ON | 2008/06/21 15:24 |
| S70 | 20 | S69 and energy | US-PGPUB; USPAT | OR | ON | 2008/06/21 15:24 |
| S71 | 5 | S70 and (piezoelectric\$4 with actuat\$4) | US-PGPUB; USPAT | OR | ON | 2008/06/21 15:24 |
| S72 | 19 | (borehole or wellbore or downhole) and (piezoelectric\$4 adj actuator) and acoustic\$4 | US-PGPUB; USPAT | OR | ON | 2008/06/21 15:29 |
| S73 | 1 | ("6757218").PN. | US-PGPUB; USPAT | OR | OFF | 2008/06/21 16:55 |
| S74 | 1 | S73 and frequency | US-PGPUB; USPAT | OR | ON | 2008/06/21 16:56 |
| S75 | 235 | (downhole or borehole or wellbore) and (acoustic\$4 with energy) and (different adj frequencies) | US-PGPUB; USPAT | OR | ON | 2008/06/21 17:10 |
| S76 | 5 | S67 and S75 | US-PGPUB; USPAT | OR | ON | 2008/06/21 17:10 |
| S77 | 131200 | "340"/\$.ccls. "367"/\$.ccls. | US-PGPUB; USPAT | OR | ON | 2008/06/21 17:22 |
| S78 | 117 | S75 and S77 | US-PGPUB; USPAT | OR | ON | 2008/06/21 17:26 |
| S79 | 18 | S78 and (frequency with simultaneously) | US-PGPUB; USPAT | OR | ON | 2008/06/21 17:26 |
| S80 | 8 | (energy with capacitor) and ((electro\$2acoustic with transducer) same conver \$5) and (acoustic\$4 same (electrical\$4 with energy)) | US-PGPUB; USPAT | OR | ON | 2008/06/21 17:55 |
| S81 | 2 | S80 and (downhole or wellbore or borehole) | US-PGPUB; USPAT | OR | ON | 2008/06/21 17:56 |

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| S82 | 24 | ((energy with capacitor) and ((electro\$2acoustic with transducer) and conver\$5) and (acoustic\$4 and (electrical\$4 with energy))) | US-PGPUB; USPAT | OR | ON | 2008/06/21 17:58 |
| S83 | 5 | S82 and (downhole or wellbore or borehole) | US-PGPUB; USPAT | OR | ON | 2008/06/21 17:58 |
| S84 | 400 | ((energy with capacitor) and ((electric\$4 and acoustic\$4 with transducer) and conver\$5) and (acoustic\$4 and (electrical\$4 with energy))) | US-PGPUB; USPAT | OR | ON | 2008/06/21 18:09 |
| S85 | 12 | S84 and (downhole or borehole or wellbore) | US-PGPUB; USPAT | OR | ON | 2008/06/21 18:09 |
| S86 | 1 | ("5444324").PN. | US-PGPUB; USPAT | OR | OFF | 2008/06/21 18:29 |
| S87 | 1 | S86 and (conver\$5) | US-PGPUB; USPAT | OR | ON | 2008/06/21 18:29 |
| S88 | 0 | S87 and capacitor | US-PGPUB; USPAT | OR | ON | 2008/06/21 18:30 |
| S89 | 1 | ("6757218").PN. | US-PGPUB; USPAT | OR | OFF | 2008/06/23 00:18 |
| S90 | 1 | S89 and frequency | US-PGPUB; USPAT | OR | ON | 2008/06/23 00:18 |
| S91 | 1 | ("5444324").PN. | US-PGPUB; USPAT | OR | OFF | 2008/06/23 00:18 |
| S92 | 1 | S91 and frequency | US-PGPUB; USPAT | OR | ON | 2008/06/23 00:18 |
| S93 | 15 | (downhole or borehole or wellbore) and (acoustic with energy) and (frequency with select\$4 with optimal\$4) | US-PGPUB; USPAT | OR | ON | 2008/06/23 00:19 |
| S94 | 197 | (operation\$4 adj duty) and ((sensor or monitor) with device) | US-PGPUB; USPAT | OR | ON | 2008/06/23 01:08 |
| S95 | 3 | S94 and (fault with diagnosis) | US-PGPUB; USPAT | OR | ON | 2008/06/23 01:08 |
| S96 | 1 | ("6940403").PN. | US-PGPUB; USPAT | OR | OFF | 2008/06/23 01:29 |
| S97 | 1 | ("20020126005").PN. | US-PGPUB; USPAT | OR | OFF | 2008/06/23 09:38 |
| S98 | 1 | S97 and fault | US-PGPUB; USPAT | OR | ON | 2008/06/23 09:38 |
| S99 | 0 | S97 and diagnosis | US-PGPUB; USPAT | OR | ON | 2008/06/23 09:40 |
| S100 | 1 | ("6940403").PN. | US-PGPUB; USPAT | OR | OFF | 2008/06/23 09:41 |

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